VDO

CD-3300

MODEL

USER'S MANUAL

USER INSTRUCTIONS English

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Important note:
This product has been designed and constructed in accordance with applicable Safety Regulations. Please read the instruction manual carefully and use the product only as intended.

INSTALLATION

For cars supplied with standard ISO connectors, you can directly mount the car radio (see 'MOUNTING'). For cars with different connecting standards, your dealer can provide specific adapter cables for a problem free installation (see table on separate installation card). You can prepare the connection yourself (see 'PREPARATION').
Ensure all cables are installed so that they cannot be damaged by sharp edges or moving parts.

PREPARATION

The set must be connected to a 12 V car battery with the negative terminal to earth (car chassis). Installation in vehicles not fulfilling these requirements could result in malfunction, damage or fire!

- **To prevent short-circuiting, disconnect the negative car battery terminal until the set has been mounted and connected** (**fig. 1.** from separate installation card).

* *Depending on version*

Complies with 21 CFR 1040.10

CONNECTOR A (fig. 2)

POWER SUPPLY CONNECTIONS

- **Brown** wire A8: Connect to an earthing point on the car body.
- **Red** wire A7: Connect to a *permanent* 12 V supply. This is the main power supply. **Ensure this connection can handle a current of 10 A.**
- **Yellow/red** wire A4: Connect to the *switched* 12 V supply of the car ignition.

This connection set up will enable you to make full use of the ON/OFF LOGIC function of this set limiting the use of the set to 1 hour after removal of the ignition key. If this feature does not appear to be functioning as expected you may require an adapter cable. See reverse of installation card.

OPTIONAL CONNECTIONS FOR CONNECTOR A

ELECTRONIC / MOTOR AERIAL

- **Connect the supply for an electronic aerial or the control wire for the relay of an automatic motor aerial to pin A5.** Use the small contact supplied.

Do not use this connection point for direct supply of the aerial motor!

PILOT LIGHT

When the car headlights are switched on, the backlight to the power key remains illuminated (even when the radio is switched off). With this connection when the set is on, the brightness of the display is reduced.

- **Connect pin A6 to the dashboard illumination wiring of your car.**

Use the small contact supplied.

SDVC AND SPEED WARNING

Speed Dependent Volume Control automatically increases and decreases the volume of the set as a result of the car's speed.

Speed Warning can be used to inform you that you are exceeding a certain speed.

- **Connect pin A1 to a signal from the speedometer of your car.** Some cars are already prepared for it (e.g. certain VW & Vauxhall/Opel cars) please consult your dealer.

If not, you may need a more detailed installation requiring extra equipment to enable your car to become compatible. **This can only be accomplished by persons familiar with automotive electrical and mechanical systems.**

After connection see 'SPECIAL FUNCTIONS'.

CONNECTOR B for loudspeakers 4 x 🔈 (fig. 3)

- Only use loudspeakers that have an impedance of 4 ohms.
- Do not connect any of the loudspeaker wire to earth!
- Do not connect a booster/amplifier directly to the loudspeaker outputs!
- Do not connect loudspeakers via an external fader!

- **Blue** wire B1: Connect to Rear Right speaker (+).
- **Blue/black** wire B2: Connect to Rear Right speaker (–).
- **Grey** wire B3: Connect to Front Right speaker (+).
- **Grey/black** wire B4: Connect to Front Right speaker (–).
- **Green** wire B5: Connect to Front Left speaker (+).
- **Green/black** wire B6: Connect to Front Left speaker (–).
- **White** wire B7: Connect to Rear Left speaker (+).
- **White/black** wire B8: Connect to Rear Left speaker (–).

To check the loudspeaker connections keep the SOUND key pressed and switch on the set. To cancel switch off the set.

OTHER CONNECTIONS

YELLOW CONNECTOR C1 for Line-output (fig. 4)

You can connect a power amplifier with additional loudspeakers to this set:

- **Black** wire: Connect to Front Left (white) and Front Right (red) channel on amplifier.
- **Black** wire: Connect to Rear Left (white) and Rear Right (red) channel on amplifier.
- **Blue/yellow** wire: Connect to Remote on/off on amplifier.

GREEN CONNECTOR C2 (fig. 5)

This gives the following connection possibilities.

TEMPERATURE SENSOR (available separately)

You can connect a temperature sensor to this set to automatically give a visible and audible warning when the outside temperature becomes lower than 3°C to warn of the possibility of frost or black ice. The outside temperature can also be shown by pressing the DISPLAY key.

① See the mounting instructions for the sensor.

② **Connect the temperature sensor to the connector on the orange wire and activate in 'INITIAL SETTINGS',** option 'TEMP' and set to 'CELSIUS' or 'FAHRENH'.

③ See **'TEMPERATURE WARNING'** and **'DISPLAY OPTIONS'.**

This device is an aid only and cannot be used to determine exact road conditions. Use your own judgement at all times to decide whether it is safe to continue driving.

REMOTE CONTROL (available separately)

You can connect a wired remote control to this set.

- **Connect the wired remote control to the connector on the black wire.**

Please note that you can also use an infrared remote control with this set.

TELEPHONE MUTE

If your car telephone or the car kit of your mobile phone provides a mute signal, it can be used to automatically interrupt the set's audio output.

- **Connect to the yellow telephone mute wire,** use the small contact supplied.

Refer to 'INITIAL SETTINGS', options 'PHONE' set to 'MUTE', and then 'PHONE LOW' or 'HIGH'.

■ **BLUE CONNECTOR C3 for a Digital CD changer (available separately) (fig. 6)**

You can only connect a CD changer with a Digital Output to this set (see the mounting instructions for the CD changer).

Consult your dealer for the exact type.

Reconnect the set only after fully installing the CD Changer.

■ **TELEPHONE IN (fig. 9)**

If your car telephone or the car kit of your mobile phone provides a loudspeaker connection, its output can be amplified through the car's front speakers.

① **Connect connector D (yellow) to the loudspeaker output of your car phone.**

② **Also connect the yellow mute wire of connector C2 fig. 5.**

Refer to 'INITIAL SETTINGS', options 'PHONE' set to 'IN' and then 'PHONE LOW' or 'HIGH'.

■ **SUBWOOFER OUT G**

You can connect a subwoofer via an external amplifier to this set.

- Connect plugs H to Left (white) and Right (Red) channel on the amplifier.
- To control subwoofer frequency see 'INITIAL SETTINGS'.

■ **MICROPHONE JACK for Autoequalization H**

A microphone connection is provided to measure the sound curves of your car when the autoequalization function is performed.

- **Connect the microphone to the microphone jack flylead.**

After connection see 'SPECIAL FUNCTIONS'.

■ **AUXILIARY CONNECTOR I**

To increase your listening possibilities you can connect a portable DCC, CD or cassette player to this set. Cable **D** must be connected to an output of 750 mV (in most cases the headphone output of the portable player is suitable).

- **Connect plugs D to Left (white) and Right (red) channel on portable player.**

  Increase the volume of the portable player to the desired level.

MOUNTING

METAL SLEEVE

① **Insert metal sleeve into the opening (182 x 53 mm) in the car dashboard or console (fig. 7).** See separate installation card. For optimal performance of the CD player*, the metal sleeve should be positioned within the limits shown (between -10° and +30°).

② **Fix metal sleeve into place by pressing the metal tags outwards using a screwdriver (fig. 8).**

CONNECTING RADIO (fig. 9)

In order to make full use of the ON/OFF logic function of this set, which limits operation to 1 hour after removal of the ignition key, use adapter EA6259 for most cars excluding most German makes.

① **Ensure battery is disconnected.**

② **Insert aerial connector E into aerial socket.** Good reception is only possible with a good aerial. Fix aerial adapter (EA6257/00) if needed. Use hook (J) on back of set to secure fixing.

③ **Insert power supply connector A into socket A'.**

④ **Insert loudspeaker connector B into socket B'.**

• (optional) Remove the protective cover from socket **C'.**
• (optional) Insert the blue CD changer connector **C3** into socket **C3'.**
• (optional) Insert the green connector **C2** into socket **C2'.**
• (optional) Insert the yellow line-out connector **C1** into socket **C1'.**

The green connector slides between the yellow connector **C1** and the blue connector **C3.** You need at least one of these connections to keep **C2** in place.

MOUNTING RADIO

① **Slide the radio into the metal sleeve** until the springs at either side of the radio snap into the openings of the sleeve **(fig. 10).** NOTE: This set can be mounted in a Japanese car, please consult your dealer.

② **Reconnect the negative car battery terminal (fig. 11).** Installation is now complete.

REMOVING RADIO (fig. 12)

You can unlock the radio using the two U-brackets supplied.

① **Remove the front, see 'SECURITY', 'DETACHABLE FRONT'.**

② **Insert both U-brackets into the holes on the front of the set until they lock.**

③ **Remove the radio from the metal sleeve.**

REPLACING FUSE (fig. 9)

• **Pull fuse F out of connector block at rear of radio.** Replace with a 10 A blade-type fuse.

The new fuse must be of exactly this value and type otherwise the set will not be adequately protected. Ignoring this procedure may lead to damage to the set, which will invalidate the guarantee.

INTERFERENCE SUPPRESSION

Most modern cars have sufficient interference suppression. If you experience interference generated by the car, consult your garage.

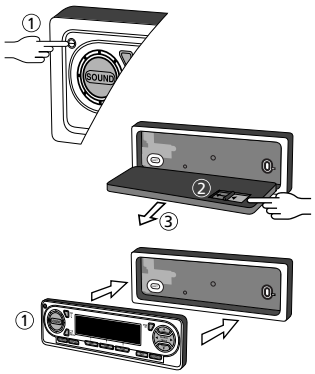
* *Depending on version*

SECURITY

For theft protection this set is provided with the following security features:

DETACHABLE FRONT

Take the detachable front with you when leaving the car if not, the set will emit a warning beep 10 seconds after the removal of the ignition key as a reminder. Keep it in its protective cover. Always replace the detachable front before starting to drive. If the front is left flapped down warning beeps will be heard.



• REMOVING THE FRONT

① Open the front.

② Push the button in the direction of the arrow as shown.

③ Remove the front.

• REPLACING THE FRONT

① Push the front until it clicks into position.

To ensure good connection between the set and the detachable part, it is advisable to clean the connectors with a cotton swab from time to time.

SECURITY LIGHT

When the car ignition is switched off and the detachable front is removed, the red light flashes.

• You can switch off the flashing warning light. See 'INITIAL SETTINGS', option 'LED'.

SECURITY WARNING STICKERS

• Stick the supplied 'Security' warning stickers on your car windows.

IDENTIFICATION NUMBER

This set has a unique identification number stated on the 'Security card' (see separate installation card). This 'Security card' is required as proof of ownership when the set is stolen, when the detachable front is lost or when requesting service.

Do not keep the 'Security card' in your car.

OPERATION

Legend:

Briefly press the key.

Press and hold the key.

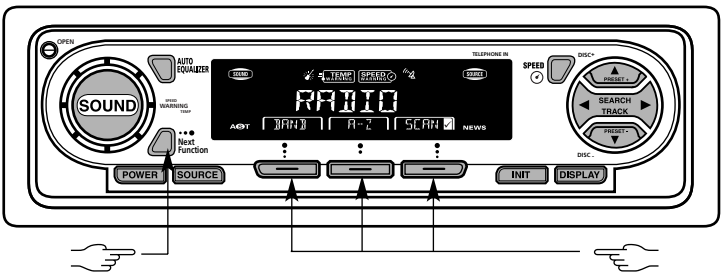
Turn the rotary knob.

Press the key until you hear a confirmation beep.

FUNCTION OPERATION

Three SOFT KEYS located beneath the display control the majority of secondary functions of this set. Each of these keys can have a variety of functions depending on the content of the label located above it in the display.

Soft key function selection.



Soft key function confirmation.

AUDIO

ON / OFF

• Switch the set on or off.

You can use the set even when the car ignition is switched off. See 'INSTALLATION'.

VOLUME

Please make sure you can still hear the traffic (horns, sirens, etc.).

• Adjust the volume.

Be aware that the volume will automatically increase and decrease if the SDVC connection is made and selected.

See 'INSTALLATION'.

TELEPHONE MUTE

Certain car telephones or mobile phones with a car-kit, if linked to the set, can automatically interrupt the audio output. See 'INSTALLATION'.

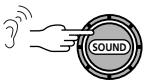
TELEPHONE IN

If your car telephone or car-kit of your mobile phone provides a loudspeaker connection, its output can be amplified through the car's speakers. See 'INSTALLATION'.

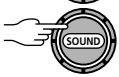
AUDIO

AUDIO SETTINGS

① Enter the audio menu.



② Select the desired audio settings:



↓ Bass (Low notes)	BASS
↓ Treble (High notes)	TREBLE
↓ Balance (Left-Right)	BALANCE
↓ Fader (Front-Rear)	FADER
↓ Subwoofer (Extra bass, if connected and central frequency selected in INITIAL SETTINGS)	
↓ Volume	VOLUME

③ Adjust the selected audio setting.
After 5 seconds the display goes back to the normal play mode.

LOUDNESS

This option dynamically amplifies the high and low notes so as to improve the sound output at low volume levels. See 'INITIAL SETTINGS' option 'LOUD'.

SOUND STYLE

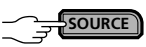
These styles correspond with certain audio frequency ranges.

• Select one of the pre-defined sound styles:

↓ Your own settings of Bass and Treble	BASS-TREB
↓ Mid-positions of Bass and Treble	FLAT
↓ Jazz	JAZZ
↓ Spoken Voice	VOCAL
↓ Pop	POP
↓ Classical	CLASSIC
↓ Rock	ROCK

SOUND SOURCE

• Select the desired source:

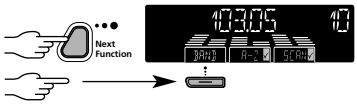


↓ Radio	RADIO
↓ Cassette/CD Player*	TAPE/CD PLAYER
↓ CD Changer (if connected)	CD CHANGER
↓ Auxiliary (if connected) and if option is selected in Initial Settings	AUXILIARY YES
↓ PHONE IN (if connected) and if option is selected in Initial Settings and a call is active.	TELEPHONE IN

** Depending on version*

RADIO - TUNING TO A STATION

WAVEBAND



① **Select the menu containing** BAND.

② **Select the desired waveband.**

FM
FM AST
MW
MW AST
LW
SW

if activated

FM and FM AST cover the same frequencies. The same is true for MW and MW AST.

SEARCH TUNING

Use search tuning to automatically search for a station.

• Select the desired frequency.

If you have switched on the TA mode, the radio will only search for stations allowing the reception of Traffic Announcements. (See 'TRAFFIC ANNOUNCEMENTS').

If search tuning stops too frequently (on FM bands only), you can adjust its sensitivity; see 'STATION SEARCH LEVEL'.

FREQUENCY SCAN

This function allows you to listen to each located station on the current waveband.

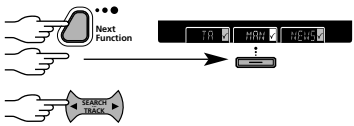
① **Select the menu containing** SCAN.

② **Activate ✔/Deactivate the frequency scan.**

To adjust the scan time see INITIAL SETTINGS.

MANUAL TUNING

Use manual tuning if you know the frequency of the required station.



① **Select the menu containing** MAN.

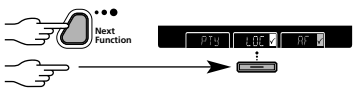
② **Activate ✔/Deactivate manual tuning.**

③ **Tune to the desired frequency.**

After about 1 minute the radio automatically switches back to search tuning.

STATION SEARCH LEVEL

Alter the search level for the FM waveband.



① **Select the menu containing** LOC.

② **Activate ✔/Deactivate local to search for strong stations.**

When LOCAL is not activated, the search level is DISTANT, indicating that the set now also searches for weaker stations.

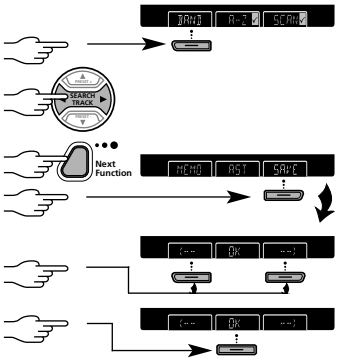
RADIO - TUNING TO A STATION

PRESETS

Use manually-stored presets for the stations you listen to often. Use automatically-stored presets to quickly find the strongest stations, for example when travelling through different reception areas.

MANUALLY STORING STATIONS ON A PRESET

You can manually store 20 FM stations on the FM band, 10 MW stations on the MW band, 10 LW stations and 10 SW stations. It is not possible to manually store stations on the FM AST or MW AST wavebands.



① **Select the desired waveband.**

② **Tune in the desired station.**

③ **Select the menu containing** SAVE**.**

④ **Select** SAVE**.**

⑤ **Select the preset number you wish to use.**

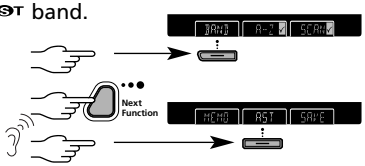
⑥ **Store the station.**

The radio leaves the preset store mode.

When storing an FM station, the relevant RDS information and AF mode (on/off) are also stored on the preset.

AUTOMATICALLY STORING STATIONS (AutoSTore) AST

By simply pressing one key you can automatically store the 10 strongest FM stations on the FM AST band or 10 strongest MW stations on the MW AST band.



① **Select an FM or MW waveband.**

② **Select the menu containing** AST**.**

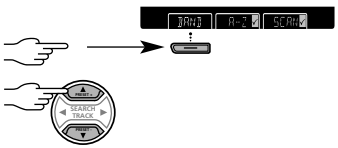
③ **Store 10 stations on the FM AST or MW AST waveband.**

The set mutes.

When it has finished, you hear a beep and the station stored on preset 1.

Sometimes it may not be possible to find 10 stations.

RECALLING A PRESET



① **Select the desired waveband.**

② **Select the desired preset.**

If A-Z activated, stations are selected alphabetically on the FM waveband, if not, numerically.

RDS ON FM

Many FM stations broadcast RDS information. This set uses the RDS information to offer you many advantages including:

DISPLAY OF STATION NAME

The set displays the station name instead of its frequency.

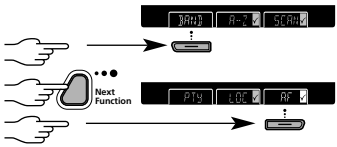
ALTERNATIVE FREQUENCY (AF)

When activated this ensures that the set remains tuned to the current station by continually searching for the best possible frequency for reception. Only deactivate when you hear short sound interruptions.

① **Select an FM waveband.**

② **Select the menu containing** AF**.**

③ **Activate ✔/ Deactivate** AF**.**



TA (TRAFFIC ANNOUNCEMENTS), NEWS / WEATHER ANNOUNCEMENTS

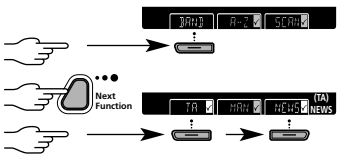
You can activate the TA and/or NEWS/ WEATHER modes to give priority respectively so as to hear announcements related to these subjects, (even if you play a tape/CD* or mute the set).

ACTIVATING/DEACTIVATING THE TA & NEWS/WEATHER MODES

① **Select an FM waveband.**

② **Select the menu containing** TA and NEWS**.**

③ **Activate ✔/ Deactivate the desired option;** TA/NEWS



You will now hear Traffic and or News/Weather Announcements when broadcast by any station.

If you select TA and ( ) is not shown in the display this indicates that the current station does not support these services; the radio automatically searches for a station that does.

ALARM MESSAGES

This set automatically receives emergency messages made by the broadcaster.

SKIP

The SKIP menu is presented when an announcement is broadcast, giving you the option to ignore the announcement.
This does not turn off the mode.

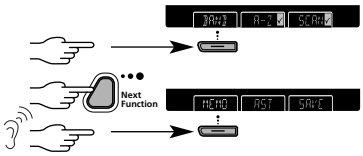
** Depending on version*

RDS MEMORY STORE

It is possible to store up to 50 stations in alphabetical order on this set in a separate FM memory. You can then select them by name.

LOADING RDS MEMORY

To load all the receivable RDS stations of the current reception area into the RDS Memory.



① **Select the FM waveband.**

② **Select the menu containing** MEMO**.**

③ **Activate the search.**

The set mutes.

When the search is completed the set beeps again and you hear the first alphabetically stored station.

SCROLLING THROUGH THE RDS MEMORY

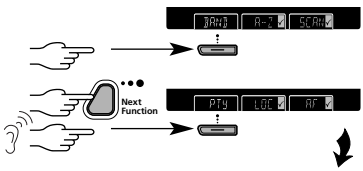
① **Activate ✔/Deactivate alphabetical station selection.**

If this operation has already been performed (and there are stations in the memory) if not you hear a beep and should proceed as described under **'LOADING RDS MEMORY' point ③.**

② **Select the desired station.**

PTY PREVIEW (PROGRAMME TYPE)

It is possible to search for all the currently available stations with a PTY code on the FM band, giving you direct access to the type of programmes (e.g. SPORT, NEWS, POP, etc) which relate to these subjects. The list of station types is memorised for about 10 minutes, after that time a new list will be created when you activate PTY.

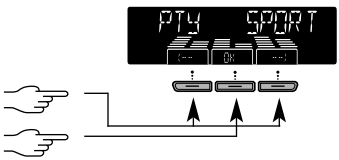


① **Select an FM waveband.**

② **Select the menu containing** PTY**.**

③ **Activates the search if no stations memorised.**

The set mutes. When the search has finished, you hear a beep and the last station found with the first available PTY displayed.



When there are stations in the memory:

① **Scroll through the PTY selections.**

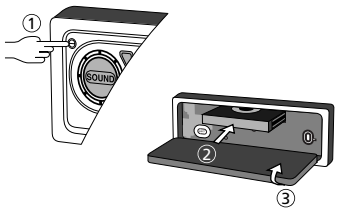
② **Select the desired PTY.**

You then hear that station. If more than one station has the same PTY code (e.g. SPORT) each time you select SPORT you will hear the next station related to that subject.

PTY is not yet implemented in all countries.

CASSETTE PLAYER*

PLAYBACK



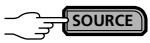
① **Open the front.**

② **Slide a cassette with the open side to the right into the cassette opening.**

③ **Close the front.**

The display *briefly* shows TAPE CR if a metal or chromium cassette is inserted. Playback starts.
If a cassette is already inserted:

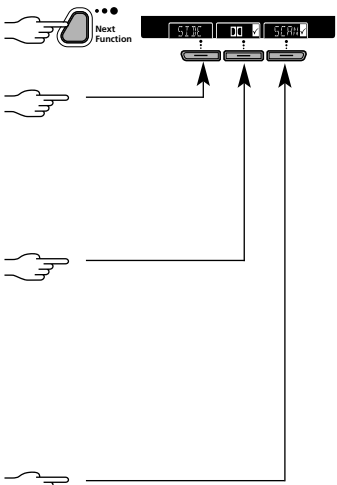
• **Select cassette as source.** Playback starts.



TA, NEWS/WEATHER ANNOUNCEMENTS may interrupt cassette playback.

PLAYBACK OPTIONS

• **Select the menu containing** SIDE, ▯▯, SCAN.



CHANGE SIDE

• **Change the side before the end of the cassette is reached.**

At the end of the cassette, playback automatically continues with the other side.

DOLBY® B NOISE REDUCTION (NR)

• **Activate ✔/Deactivate DOLBY® B.**

Only if the tape has been recorded using the DOLBY B NR System.

® Dolby Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation. 'DOLBY' and the double-D symbol D are trademarks of Dolby Laboratories Licensing Corporation.

SCAN CASSETTE

• **Activate ✔/Deactivate the scan.**

The scan enables you to listen to the first few seconds of each track. You can select how many seconds each track is scanned; see 'INITIAL SETTINGS'.

PREVIOUS / NEXT TRACK (Music Search System MSS)

Select how many tracks you want to miss out from the current playing position.

• **Previous Tracks.**

• **Next Tracks.**

To stop the search reduce the displayed number until the display shows PLAY.

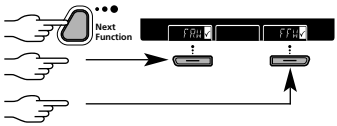
The sound is muted until the desired track is reached.

The set can only recognise tracks when there are silent intervals of at least 3 seconds.

** Depending on version*

CASSETTE PLAYER*

FAST REWIND/ FAST FORWARD



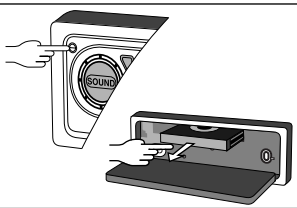
① **Select the menu containing** FRW and FFW**.**

② **Activate ✔/Deactivate FAST REWIND**

FAST FORWARD

You hear the radio during this operation.

CASSETTE EJECT

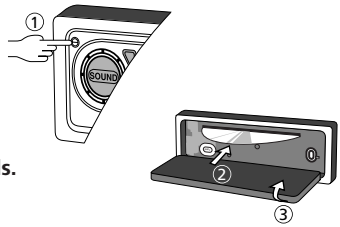


CARE OF CASSETTES

- Only use good quality cassettes of 60 or 90 minutes preferably, chrome type cassettes.
- Put cassettes back in their boxes immediately after use to protect them from dust and dirt and to prevent the tape from unwinding.
- Never expose cassettes to heat, direct sunlight or moisture.
- Clean the tape head (once or twice a month) using a *wet-tape cleaning cassette.*

** Depending on version*

CD PLAYBACK (CD Player)



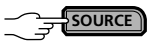
This CD player is suitable for 12 cm discs.
Do not use unusually shaped CDs.

① **Open the front.**

② **Slide the disc into the slot with the label facing upwards.**

③ **Close the front.** Playback starts.

If a disc is already inserted:



• **Select CD as source.** Playback starts.
The display shows:
- CD PLAYER,

- the manually entered title (if entered, see TITLE ENTRY),

- the total number of tracks (e.g.: 14) and the total playing time (e.g.: 61.10), then

- the current track number (e.g.: 3) and the elapsed time (e.g.: 0:21).

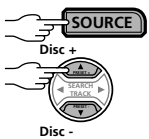
TA, NEWS/WEATHER ANNOUNCEMENTS may interrupt CD playback.

CD PLAYBACK (CD Changer, if connected)

A Digital CD changer can be connected to this set, see your dealer for more information.

① **Check that the magazine is loaded with discs and inserted in the CD changer.**

② **Select the CD Changer as source**



③ **Select the desired disc.**
The display shows the disc title (if the CD Changer and CD support CD TEXT™),
Then, the manually entered title (if entered, see TITLE ENTRY), or LOADING CD 1
e.g. dis 1, then

- the disc number (e.g.: 1) the total number of tracks (e.g.: 14) and the total playing time (eg.: 61.10), then

- the disc number (e.g.: 1) the current track number (e.g.: 3) and the elapsed time (e.g.: 0:21).

At the end of the disc, playback automatically continues with the next disc.
Any missing disc is automatically skipped.
TA, NEWS/WEATHER ANNOUNCEMENTS may interrupt CD playback.

* *Depending on version*

CD PLAYER* and CD CHANGER

If the display shows: NO MAGAZINE, NO DISCS, D 2 ERROR or CDC NO FRONT. Check that the magazine has been inserted in the CD changer. Check that the magazine has been loaded with discs (at least one). Check that the discs have been inserted the correct way up and that you have not inserted a damaged or dirty disc. Check that the front of CD changer has been closed.*

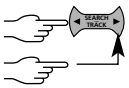
PREVIOUS / NEXT TRACK

• Select the desired track.

- Previous.

- Next.

Playback resumes with the chosen track.



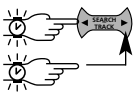
FAST BACKWARD / FORWARD

• To quickly move through the disc.

- Backwards.

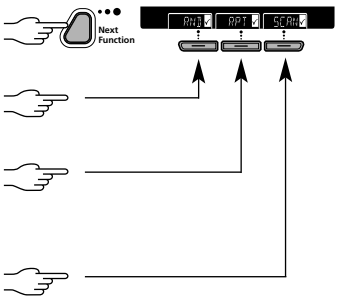
- Forwards.

Normal playback resumes when you release the key.



PLAYBACK OPTIONS

• Select the menu containing RND, RPT, SCAN.



RANDOM TRACK PLAYBACK

• Activate ✔/Deactivate Random track playback.

REPEAT CURRENT TRACK

• Activate ✔/Deactivate Repeat current track.

To continually repeat the current track.

SCAN TRACK

• Activate ✔/Deactivate Scan track.

The scan function enables you to listen to the first few seconds of each track. You can select how many seconds each track is scanned, see 'INITIAL SETTINGS'.

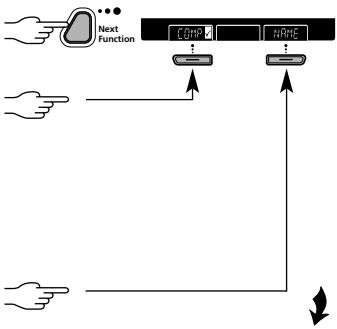
NOTE: HIGHLIGHT scan (CD Changer only, if connected).

If the CD Changer and the inserted CDs support (CD TEXT™), when you activate SCAN the set plays a section of each track with which you are most familiar (e.g. the chorus).

** Depending on version*

FURTHER OPTIONS

• Select the menu containing COMP and NAME**.**



COMPRESSION

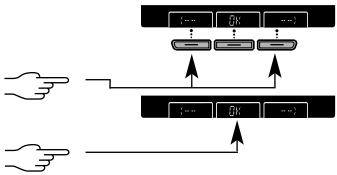
• Activate ✔/Deactivate Compression.

This function reduces the volume of the loud sections and increases the volume of the quiet sections.
See INITIAL SETTINGS to select the amount of compression.

TITLE ENTRY

• CD Title Entry.

You can assign titles to 50 of your CDs each with a maximum of 12 letters. Each time you play a CD to which you have given a name, it will be recalled and displayed by the set.

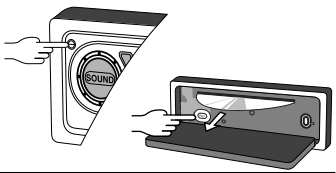


① **Scroll through an alphanumeric list.**

② **Confirm the character.**

Title entry ends after confirming all characters and spaces.
If the memory is full, MEMORY FULL select the title to be deleted and confirm.

DISC EJECT (CD Player)*



If the disc is not removed within 15 seconds, the CD player will re-load the disc.

CARE OF DISCS

- Avoid making fingerprints on the disc when you take it out.
- Put the disc back in its box immediately after ejecting it, to protect the disc from damage and dust.
- Do not expose the disc to heat or direct sunlight.

** Depending on version*

SPECIAL FUNCTIONS

SDVC (SPEED DEPENDENT VOLUME CONTROL) and SPEED WARNING

• See INSTALLATION for connection instructions.

SDVC

To compensate for surrounding noise this function automatically increases the volume of the set as a result of the car's speed. Four compensation levels can be selected. Level 1 gives a small increase up to level 4 which gives a greater increase. See INITIAL SEETINGS option SDVC to alter the level until you find one which suits your car.

SPEED WARNING

You can use this function to inform you that you are exceeding a certain speed.
Always obey the Highway Code and current traffic restrictions and conditions!

• To calibrate:

To avoid unnecessary distraction we advise that this procedure is carried out with the help of somebody else.

① While stationary, hold down the SPEED key turn on the set.

Display shows:

Then

The sound mutes.
Now drive to 50 km/h (30 mph).
Always obey the Highway Code and current traffic restrictions and conditions!

② Once 50 km/h (30 mph) is reached briefly press:

You see:

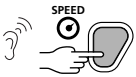
And hear a beep.

③ Now turn the set off and on again to return to normal operation.

Level 3 is chosen for SDVC and SPEED is set to km/h in 'INITIAL SETTINGS'.

STORE A SPEED

Ensure in 'INITIAL SETTINGS' option 'SPEED' is set either to mph or km/h.



① Drive at the desired speed.

② Record the speed e.g. 100 km/h.

Now when recorded speed is exceeded you see:
And hear beeps which become quicker the faster you drive.

③ Warning ends, if the speed is reduced below the recorded level or you can skip it:

ACTIVATING / DEACTIVATING SPEED WARNING

Once a speed has been recorded it can be activated and deactivated as often as you wish.

• Activate/Deactivate speed warning eg. to warn when the car's speed exceeds the registered speed.

To change the recorded speed see 'STORE A SPEED'.

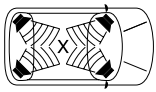
AUTOEQUALIZATION

See 'INSTALLATION' for connection instructions.

This function measures the sound output of your speakers within your car and then optimises the space so as to create the effect of a hi-fi studio.

• To calibrate:

① **Ensure that the set is switched off.**
*A microphone **MUST** be connected to continue with the procedure!*



② **Position the microphone where you want the sound to be centralized in your vehicle, for example position 'X'.**

③ **Hold down the AUTOEQUALIZER key and turn on the set.**

④ **Then press the SOUND button.**

⑤ **Follow the displayed instructions, and leave your car closing the door behind you. (Don't lock yourself out!).**

⑥ **Once finished (after about 2 minutes) or when no sound is being emitted, re-enter your car and read the displayed instructions.** If EQUALISER OK is shown, disconnect the microphone. Calibration is now complete. If EQUALISER NOT OK is displayed then redo the calibrationn procedure from point 1.

Once successfully calibrated:

• Activate/Deactivate autoequalization effects.

If autoequalization has not been performed you hear an error beep.

TEMPERATURE WARNING

You can connect a temperature sensor to this set to give a visible and audible warning automatically when the outside temperature becomes lower than 3°C. See 'INSTALLATION' then 'INITIAL SETTINGS' options 'TEMP'.

CLOCK

This set has a clock that can either be manually adjusted by you or can be automatically updated via the RDS signal. See 'INITIAL SETTINGS' option CLOCK.
The time transmitted via RDS can be wrong.

AUTOMATIC LEVELLER

This ensures that when you change between different stations/wavebands or from radio to CD playback, that the new volume is neither too loud or too quiet. See 'INITIAL SETTINGS' option LEVELER.

DEMONSTRATION MODE

In this mode, the display shows the main features of the set.

SWITCHING ON DEMO MODE

While keeping the Display key pressed, switch on the set. Release the Display key when you see a change in the display. The set remains in the demonstration mode, even if you switch the set off and then on again.

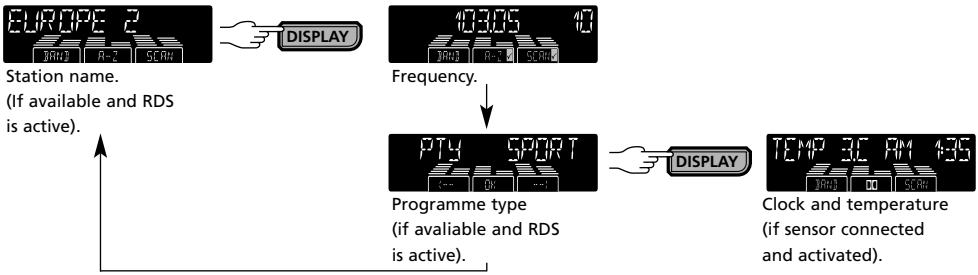
SWITCHING OFF DEMO MODE

Switch off the set.
Follow exactly the same procedure as 'Switching ON demo mode'.

DISPLAY OPTIONS

Choose what the display shows;

In Radio mode:



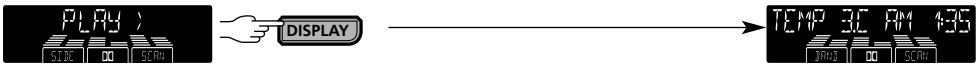
Station name. (If available and RDS is active).

Frequency.

Programme type (if avaliable and RDS is active).

Clock and temperature (if sensor connected and activated).

In Cassette* mode:



Depending on current operation.

Clock and temperature (if sensor connected and activated).

In CD* mode:

Current track and track time.

CD title (if entered).

Clock and temperature (if sensor connected and activated).

In CD changer mode (if connected):

Disk number, track number and track time.

CD title (if entered).

Clock and temperature (if sensor connected and activated).

During a Telephone Call or Telephone Mute (if connected):

Clock and temperature (if sensor connected and activated).

** Depending on version*

INITIAL SETTINGS

It is possible to modify many of the set's initial settings according to your preferences.

① **Enter the Initial Settings menu.**

② **Select one of the options you want to modify.**

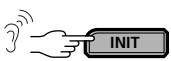
③ **Alter the chosen option.**

- Select temperature function; [OFF] to disable, [DISPLAY] to enable display, [WARNING] to enable display and warning.	TEMP	[DISPLAY, WARNING, OFF]
- Select the temperature format.	TEMP	[FAHRENHEIT, CELSIUS]
- Activate / Deactivate speed warning.	SPEED	[NO, KM/H, MPH]
- Select the speed dependent volume control level (only when connected and calibrated, see SDVC and Speed Warning in 'SPECIAL FUNCTIONS').	SDVC	[OFF, 1, 2, 3, 4]
- Select the telephone function. (if connected) MUTE if your phone only interrupts the set's volume and IN if your phone provides a loudspeaker connection.	TELEPHONE	[NO, IN, MUTE]
- If IN or MUTE were selected for telephone function set detection level.	TELEPHONE	[LOW, HIGH]
- Activate / Deactivate the ON/OFF logic to limit the use of the set to 1 hour after the key has been removed.	LOGIC	[ON, OFF]
- Select auxiliary as source (if connected).	AUXILIARY	[YES, NO]
- Activate / Deactivate the security light.	WARNING LED	[ON, OFF]
- Activate/Deactivate subwoofer (if connected). If activated select central frequency.	SUBWOOFER FRQ	[40, 80, OFF]
- Activate / Deactivate dynamic loudness.	LOUDNESS	[OFF, AUTO]
- Select the frequency threshold of the low notes.	BASS FREQ	[80, 40]
- Select the frequency threshold of the high notes.	TREBLE FREQ	[5K, 7K]
- Activate / Deactivate the automatic leveller between the different sources.	LEVELER	[AUTO, OFF]
- Select the type of confirmation beep.	BEEP TYPE	[1, 2, 3, 4]
- Select the confirmation beep level.	BEEP LEVEL	[1, 2, 3, 4, 5]

INITIAL SETTINGS

- Select the compression level for CD playback* (LOW retains the peaks in the volume, MID slightly reduces the peales, HIGH levels them out).	CD COMPRESS	[LOW, MID, HIGH]
- Select the scan time (station or track).	SCAN TIME	[5 SEC, 10 SEC, 15 SEC]
- Select the viewing angle of the set's display.	VIEW ANGLE	[0, +1, -1]
- Select the desired clock format.	TIME	[24H, 12H]
- Activate/Deactivate the active RDS clock, or enter time manually.	CLOCK	[MANUAL, AUTO]
If MANUAL selected; set the time.	TIME	[10:35]

- Activate/Deactivate the bar graph.	BARGRAPH	[ON, OFF]
- Select the Traffic Announcement volume.	TA VOLUME	[0, +1, +2, +3, +4]
- Activate/Deactivate MW bands (only if RADIO standard is EUROPE).	MW	[ON, OFF]
- Activate/Deactivate AM bands (only if RADIO standard is the Americas (AMER) or (ASIA)).	AM	[ON, OFF]
- Activate/Deactivate LW band (only if RADIO standard is EUROPE).	LW	[ON, OFF]
- Activate/Deactivate SW band (only if RADIO standard is EUROPE).	SW	[ON, OFF]
- Select the radio standard depending ASIA] on your current world location.	RADIO	[EUROPE, AMERICA,
- Select ON to maintain regional programme, OFF to directly switch to the programme of the next region. AUTO only switches when the next signal is stronger.	REGIONAL	[ON, AUTO, OFF]
- Select RDS ON to activate RDS information and OFF to deactivate. This subsequently changes the soft key menu options for the radio.	RDS	[ON, OFF]



④ Leave INITIAL SETTINGS menu:
After one minute the set automatically leaves the INITIAL SETTINGS menu.

** Depending on version*

NOTES AND TROUBLESHOOTING

ENVIRONMENT

This booklet is printed on low-chlorine recyclable paper that can be used for recycling.

CHECKS BEFORE REQUESTING SERVICE

There may be times when you suspect that your car radio is not functioning as you expect it to. Before calling for service please read the operating / installing instructions and check the following list. You may find that an apparent malfunction can easily be rectified.

Symptoms	Possible Cause / Remedy
General	
Set does not function. No display.	• Check fuse (set and car) and connections.
Set functions but with no or poor sound.	• Adjust volume of set to demute set. • Check fader and balance settings. • Check the aerial and its connection. • If car phone is connected, check setting of 'PHONE' option, see 'INITIAL SETTINGS'.
Set mutes when you drive the car or display shows 'PHONE MUTE'.	• Set 'PHONE' option to 'NO' see 'INITIAL SETTINGS'.
Detachable front of set feels warm.	Some heat is always generated by the set.
The sound from the speakers is reduced or display shows temperature 'TEMP TOO HOT' when you try to increase the volume.	A built-in safety circuit prevents the temperature in the set from exceeding a certain level. • Wait until ' TEMP TOO HOT' does not appear on the display when increasing the volume.
Volume fluctuates.	• Check SDVC connection and calibration. If problems persist consult your dealer.
Speed warnings do not correspond with actual speed.	• Redo speed calibration.
Display shows set's specifications.	• See 'DEMONSTRATION MODE'.
Infrared remote control does not function (optional).	If the weather is cold, there may be some condensation on the infrared sensor. • Wait for about five minutes for the moisture to evaporate.
Set turns off after one hour when operating without the ignition key.	ON/OFF logic is active, see 'INITIAL SETTINGS' option 'LOGIC'.
Radio	
Poor radio reception.	• Check that the aerial is fully extended and properly connected. • Check that the negative terminal (brown lead) is connected to earth (car chassis). Some cars use an active aerial requiring a 12 V supply. • Check that this voltage is supplied.

Symptoms	Possible Cause / Remedy
Radio	
Display shows frequency (not station name).	Set is tuned to non-RDS station or RDS is not active, see 'INITIAL SETTING' option 'RDS'.
Display shows 'ALARM'.	Emergency announcement is being broadcast.
Unable to tune to desired station with search tuning.	• Check the tuner standard, see 'INITIAL SETTINGS'. The desired station is too weak: • Tune to desired station using Manual tuning. • Check that the aerial is fully extended. Set is in TA mode: only stations with Traffic Announcements can be tuned in. • If necessary switch off the TA mode.
Display shows PI SEARCH.	A preset has been requested but the frequency is not available or is lost.
Display shows TP LOST.	Station has turned off the TP (TRAFFIC PROGRAMME) signal intentionally or the signal is too weak, or you are entering an area where no stations provide Traffic Announcements.
Display shows NO PTY.	Search launched but no stations found.
Cassette*	
Cassette playback lacks high-notes or loss of one channel.	• Clean cassette player tape head (see 'CARE OF CASSETTES').
Cassette mechanism changes direction of play before end of tape.	• Rewind cassette to the end of the tape.
Display shows TAPE ERROR.	• Check tape for faults.
CD*/CD Changer (if connected)	
Display shows 'NO CD'.	• Check that the magazine has been loaded with discs
Display shows 'CD ERROR' or 'TOC ERROR' and set beeps.	• Check that the discs have been inserted the correct way up and that you have not inserted a damaged or dirty disc.
Distorted sound during playback.	Player unable to read disc. CD damaged or dirty.
CD player does not function.	If the external temperature is below - 5°C, there may be some condensation on the laser. • Use the set in radio mode for about 5 minutes to allow the moisture to evaporate.

If you still have to send your set for service, always send the complete set (with detachable front). Do not try to open the set to service it yourself.

** Depending on version*